

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
18 November 2004 (18.11.2004)

PCT

(10) International Publication Number  
WO 2004/100177 A2

(51) International Patent Classification<sup>7</sup>: H01B

(21) International Application Number: PCT/US2004/013339

(22) International Filing Date: 30 April 2004 (30.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/466,758 30 April 2003 (30.04.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

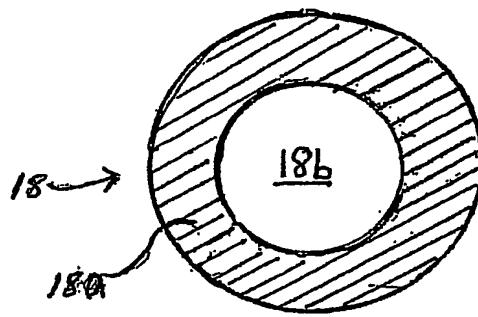
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TUBULAR SIGNAL TRANSMISSION DEVICE AND METHOD OF MANUFACTURE



(57) Abstract: A signal transmission tube may be made by disposing a reactive polymeric material within a confinement tube and leaving a portion of the tube interior unoccupied. The tube may be formed by disposing a layer of paint comprising the reactive polymeric material on the interior surface of the confinement tube, extruding the confinement tube over an elongate rod that comprises the reactive polymeric material. The rod preferably has a high surface area configuration, e.g., the rod may comprise a longitudinal bore therethrough or may be star-shaped, cross-shaped, etc. Alternatively, the signal transmission tube may be made from the reactive polymeric material. Optionally, a sheath may be extruded over the tubular reactive polymeric material. In various embodiments, the confinement tube or sheath may be configured to be fractured or substantially consumed by the reaction of the reactive polymeric material. Optionally, the reactive polymeric material may comprise a glycidyl azide polymer.

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